

A B S T R A C T

In a control system, by employing optimization such as a genetic algorithm that globally searches for an optimal solution and, for evaluating given capability of the control system, uses such an evaluation function that its having unimodal when each of at least one continuously variable parameter of the control system varies is not guaranteed or a plurality of evaluation functions that vary independently of each other when each of at least one continuously variable parameter varies, an optimal solution of the at least one continuously variable parameter is obtained. Therefore, the control system optimized in terms of the given capability can be implemented.